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PATENT  
ATTORNEY DOCKET NO. UCSD1570-1 (SD2001-164-1-MI)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert Terkeltaub Art Unit: 1646  
Application No.: ~~10/699,340~~ 10/669,540 Examiner: Not Yet Assigned  
Filed: September 23, 2003  
Title: METHOD FOR INHIBITING ARTICULAR CARTILAGE MATRIX  
CALCIFICATION

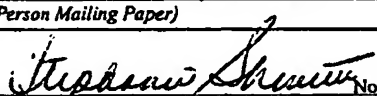
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL SHEET

Sir:

Transmitted herewith for the above-identified application, please find:

- (1) A Information Disclosure Statement (2 pages);
- (2) A Form PTO-1449 (2 pages);
- (3) Seventeen (17) References; and
- (4) Return postcard.

CERTIFICATION UNDER 37 CFR §1.8
I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on this date, November 22, 2004, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
Stephanie Sharrett (Name of Person Mailing Paper)
 November 22, 2004

In re Application of:  
Robert Terkeltaub 10/669,540  
Application No.: 10/699,540  
Filed: September 23, 2003  
Page 2

PATENT  
Attorney Docket No.: UCSD1570-1 (SD2001-164-1MT)

Applicants do not believe any fees are due in connection with this Information Disclosure Statement. However, if any fees are required, authorization is hereby given to charge Deposit Account No. 07-1896. A duplicate copy of this Transmittal sheet is enclosed.

Respectfully submitted,

Date: November 22, 2004



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**USPTO CUSTOMER NUMBER 28213**  
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PATENT

Attorney Docket No.: UCSD1570-1 (SD2001-164-1M)

Applicant:

Robert Terkeltaub

Art Unit: 1646

Application No.:

10/699,540 10/669,540

Examiner: Not Yet Assigned

Filed:

September 23, 2003

Title:

METHOD FOR INHIBITING ARTICULAR CARTILAGE MATRIX  
CALCIFICATION

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. 1.97, enclosed are references relating to the above-identified application. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449 and the copies are enclosed herewith.

It is respectfully requested that these references be considered in the examination of this application and their consideration be made of written record in the application file.

**CERTIFICATION UNDER 37 CFR §1.8**

I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on November 22, 2004, in an envelope addressed to:, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
Stephanie Sharrett

In re Application of:

Robert Terkeltaub

10/669,540

PATENT

Attorney Docket No.: UCSD1570-1 (SD 2001-164-1MT)

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This Information Disclosure Statement is being filed prior to receipt of a First Office Action on the merits. Therefore, no fee is deemed necessary. However, the Commissioner is hereby authorized to charge any amounts required by this filing, or credit any overpayment, to Deposit Account No. 07-1896.

Respectfully submitted,

Date: November 22, 2004



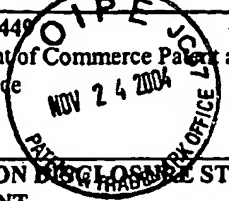
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<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office 	<b>Docket No.</b> UCSD1570-1 (SD 2001-164-1MI)	<b>Serial No.:</b> 10/669,540
	<b>Applicant(s)</b> Robert Terkeltaub	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	<b>Filing Date:</b> September 23, 2003	<b>Group Art Unit:</b> 1646

### U.S. PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE

### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

A	Aeschlimann, et al., "Protein Crosslinking in Assembly and Remodeling of Extracellular Matrices: The Role of Transglutaminases", <i>J. Cell Biol.</i> 142:1135-1144 (1998).
B	Aeschlimann, et al., "Tissue Transglutaminase and Factor XIII in Cartilage and Bone Remodeling", <i>Semin. Thromb. Haemostas.</i> 22(5):437-443 (1996).
C	Fabbi, et al., "Tissue Transglutaminase is a Caspase Substrate During Apoptosis. Cleavage Causes Loss of Transamidating Function and Is A Biochemical Marker of Caspase 3 Activation", <i>Cell Death Diff.</i> 6:992-1001 (1999).
D	Gaudry, et al., "Cell Surface Localization of Tissue Transglutaminase is Dependent on a Fibronectin-Binding Site in its N-terminal $\beta$ -Sandwich Domain", <i>The J. of Bio. Chem.</i> 274(43):30707-30714, (1999).
E	Gohr, et. al., "S 100 in Aging Anticardial Chondrocytes", <i>Arthritis Rheum</i> 43:S281 (2000) Abstract.
F	Greenberg, et al., "Transglutaminases: Multifunctional Cross-Linking Enzymes that Stabilize Tissues," <i>FASEB Journ.</i> 5:3071-3078 (1991).
G	Grey, et al., "A 20 Inhibits Cytokine-Induced Apoptosis and Nuclear Factor $\kappa$ B-Dependent Gene Activation in Islets", <i>J. Exp. Med.</i> 190:1135-1146 (1999).
H	Hashimoto, et al., "Linkage of Chondrocyte Apoptosis and Cartilage Degradation in Human Osteoarthritis", <i>Arthritis Rheum.</i> 41(9):1632-1638 (1998)
I	Heyninck, et al., "The Zinc Finger Protein A20 Inhibits TNF-Induced NF- $\kappa$ B-Dependent Gene Expression By Interfering with an RIP- or TRAF2-Mediated Transactivation Signal and Directly Binds to a Novel NF- $\kappa$ B-Inhibiting Protein ABIN", <i>J. Cell Biol.</i> 145(7):1471-1482 ((1999).
J	Johnson, et al., "Differential Mechanisms of Inorganic Pyrophosphate Production by Plasma Cell Membrane Glycoprotein-1 and B10 in Chondrocytes", <i>Arthritis and Rheum.</i> 42(9):1986-1997 (1999).

<b>EXAMINER</b>  GT6423930.1 101668-214	<b>DATE CONSIDERED</b>
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**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

